IN THE CLAIMS

Claims 1-12 (canceled)

13. (new) A hip joint prosthesis comprising an inner sliding cup made of ceramic material that is surrounded on its outside by a plastic covering, for insertion into an outer metal cup or for direct implantation with the aid of bone cement, with a ball head that is arranged on a shaft, which can be anchored in the femur, articulating in the inner sliding cup, wherein the sliding cup has a structuring on its outside.

14. (new) A hip joint prosthesis according to claim 13, wherein the structuring is provided with large radii in the notch base.

15. (new) A hip joint prosthesis according to claim 14, wherein the notch radius at the notch base amounts to more than 0.5 mm.

16. (new) A hip joint prosthesis according to claim 13, wherein the structuring consists of depressions that are undulating in section.

17. (new) A hip joint prosthesis according to claim 16, wherein the depressions that are undulating in section are circumferentially arranged on the outside of the sliding cup.

18. (new) A hip joint prosthesis according to claim 13, wherein the structuring consists of semicircular depressions.

19. (new) A hip joint prosthesis according to claim 13, wherein the sliding cup has on its outside a spherical or stepped structural form.

20. (new) A hip joint prosthesis according to claim 13, wherein the plastic covering embraces the sliding cup at its pen end.

21. (new) A hip joint prosthesis according to claim 20, wherein the collar of the plastics covering that rests on the upper side of the sliding cup covers almost half of the upper edge.

22. (new) A hip joint prosthesis according to claim 13, wherein the sliding cup is connected to the plastics covering by being pressed into the plastics covering.

23. (new) A hip joint prosthesis according to claim 13, wherein the inner form of the sliding cup is arranged eccentrically in relation to the outer form of the sliding cup.

24. (new) A hip joint prosthesis according to claim 23, wherein the variation with respect to the coaxially (eccentricity) amounts to at least 0.001mm.